

August 11, 2004

STATEMENT OF WORK

Waste Treatment Lagoon (359)

These deliverables apply to this individual practice. For other planned practice deliverables refer to those specific Statements of Work.

DESIGN

Deliverables:

1. Design documentation that will demonstrate that the criteria in [NRCS Alabama conservation practice standard Waste Treatment Lagoon, Code 359](#), have been met and are compatible with other planned and applied practices, including but not limited to:
 - a. Practice purpose(s) as identified in the conservation plan.
 - b. List of required permits to be obtained by the client.
 - c. Compliance with NRCS national and state utility and construction safety policy ([NEM Part 503, Subpart A - Engineering Activities Affecting Utilities, and Subpart B - Public Safety at Structure Sites.](#)).
 - d. List of facilitating practices.
 - e. Design computations and analyses used to develop plans and specifications, based on practice standard criteria, relating to:
 - i. Geology ([NEM Part 531, Geology, Subpart 531A, Geologic Investigations](#)).
 - ii. Soil mechanics report (with detailed liner design according to [\[National Engineering Handbook, Part 651, Agricultural Waste Management Field Handbook \(AWMFH\), Appendix D\]](#)).
 - iii. Storage volume, minimum treatment volume, and stage-storage curve.
 - iv. Maximum operating level and maximum drawdown level.
 - v. Structural, mechanical, and appurtenances (inlets, staff gage, elevations, etc.).
 - vi. Clean water diversion and roof runoff management.
 - vii. Environmental considerations (e.g. liner failure, location, breaching, air quality).
2. Written plans and specifications including sketches and drawings shall be provided to the client that adequately describes the requirements to install the practice and obtain necessary permits.
3. [Construction Best Management Practices Plan \(CBMPP\)](#), if required ([NEM Part 520, Soil and Water Resource Development, Subpart A - Erosion and Sediment Control](#)).
4. Design report and inspection plan as appropriate ([NEM Part 511 - Design, Subpart B - Design Documentation, 511.11](#), and [Part 512 - Construction, Subpart D - Quality Assurance Activities, 512.30 through 512.32](#)).
5. Operation and maintenance plan (emptying schedule, explanation of staff gage markings and stage-storage curve, testing schedules, etc.).
6. Certification that the design meets practice standard criteria and complies with applicable laws and regulations ([NEM Part 505, Non-NRCS Engineering, 505.03 \(b\) \(2\)](#)).
7. Design modifications during installation as required.

INSTALLATION

Deliverables

1. Preconstruction conference with client and contractor.
2. Verification that client has obtained required permits.
3. Staking and layout according to plans and specifications including applicable layout notes.
4. Installation inspection (according to inspection plan as appropriate).
 - a. Actual materials used ([NEM Part 512 - Construction, Subpart D - Quality Assurance Activities, 512.33](#)).
 - b. Inspection records
5. Facilitate and implement required design modifications with client and original designer.
6. Advise client/NRCS on compliance issues with all federal, state, tribal, and local laws, regulations and NRCS policies during installation.
7. Certification that the installation process and materials meet design and permit requirements.

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CHECK OUT

Deliverables

1. As-Built documentation.
 - a. Extent of practice units applied
 - b. Drawings
 - c. Documentation of liner certification (moisture, density, proctors, additives, membranes, etc.)
 - d. Final quantities
2. Certification that the (CBMPP) (if required) is complete.
3. Certification that the installation meets NRCS standards and specifications and is in compliance with permits [NEM Part 505, Non-NRCS Engineering, 505.03 (c) (1)].
4. Progress reporting.

REFERENCES

- Alabama Department of Environmental Management, Administrative Code Chapter 335-6-7, as amended (AFO/CAFO Rule)
- [NRCS Field Office Technical Guide \(eFOTG\), Section IV, Conservation Practice Standard - Waste Treatment Lagoon, Code 359](#)
- [National Engineering Handbook, Part 651, Agricultural Waste Management Field Handbook \(AWMFH\), Appendix D](#)
- [National Engineering Manual \(NEM\).](#)
- [NRCS National Environmental Compliance Handbook](#)
- [NRCS Cultural Resources Handbook](#)

CONTACT INFORMATION

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